

1

SEQUENCE LISTING

<110> KYOWA HAKKO KOGYO CO., LTD.,

<120> NOVEL POLYPEPTIDE

<130> 11152W01

<150> JP H10-241248

<151> 1998-08-27

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<170> PatentIn Ver. 2.0

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<212> PRT

<213> Homo sapiens

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Glu Lys Leu Leu Asp Arg Pro Pro Pro Gly Leu Gln Arg Pro Glu Asp
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Arg Phe Cys Gly Thr Tyr Ile Ile Phe Phe Ser Leu Gly Ile Gly Ser
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Leu Leu Pro Trp Asn Phe Phe Ile Thr Ala Lys Glu Tyr Trp Met Phe
65 70 75 80

Lys Leu Arg Asn Ser Ser Ser Pro Ala Thr Gly Glu Asp Pro Glu Gly
85 90 95

Ser Asp Ile Leu Asn Tyr Phe Glu Ser Tyr Leu Ala Val Ala Ser Thr
100 105 110

Val Pro Ser Met Leu Cys Leu Val Ala Asn Phe Leu Leu Val Asn Arg
115 120 125

Val Ala Val His Ile Arg Val Leu Ala Ser Leu Thr Val Ile Leu Ala
130 135 140

Ile Phe Met Val Ile Thr Ala Leu Val Lys Val Asp Thr Phe Ser Trp
145 150 155 160

Thr Arg Gly Phe Phe Ala Val Thr Ile Val Cys Met Val Ile Leu Ser
165 170 175

Gly Ala Ser Thr Val Phe Ser Ser Ser Ile Tyr Gly Met Thr Gly Ser

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Phe Pro Met Arg Asn Ser Gln Ala Leu Ile Ser Gly Gly Ala Met Gly

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Gly Thr Val Ser Ala Val Ala Ser Leu Val Asp Leu Ala Ala Ser Ser

210

215

220

Asp Val Arg Asn Ser Ala Leu Ala Phe Phe Leu Thr Ala Thr Ile Phe

225

230

235

240

Leu Val Leu Cys Met Gly Leu Tyr Leu Leu Leu Ser Arg Leu Glu Tyr

245

250

255

Ala Arg Tyr Tyr Met Arg Pro Val Leu Ala Ala His Val Phe Ser Gly

260

265

270

Glu Glu Glu Leu Pro Gln Asp Ser Leu Ser Ala Pro Ser Val Ala Ser

275

280

285

Arg Phe Ile Asp Ser His Thr Pro Pro Leu Arg Pro Ile Leu Lys Lys

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295

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Thr Ala Ser Leu Gly Phe Cys Val Thr Tyr Val Phe Phe Ile Thr Ser

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310

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320

Leu Ile Tyr Pro Ala Val Cys Thr Asn Ile Glu Ser Leu Asn Lys Gly
325 330 335

Ser Gly Ser Leu Trp Thr Thr Lys Phe Phe Ile Pro Leu Thr Thr Phe
340 345 350

Leu Leu Tyr Asn Phe Ala Asp Leu Cys Gly Arg Gln Leu Thr Ala Trp
355 360 365

Ile Gln Val Pro Gly Pro Asn Ser Lys Ala Leu Pro Gly Phe Val Leu
370 375 380

Leu Arg Thr Cys Leu Ile Pro Leu Phe Val Leu Cys Asn Tyr Gln Pro
385 390 395 400

Arg Val His Leu Lys Thr Val Val Phe Gln Ser Asp Val Tyr Pro Ala
405 410 415

Leu Leu Ser Ser Leu Leu Gly Leu Ser Asn Gly Tyr Leu Ser Thr Leu
420 425 430

Ala Leu Leu Tyr Gly Pro Lys Ile Val Pro Arg Glu Leu Ala Glu Ala
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Thr Gly Val Val Met Ser Phe Tyr Val Cys Leu Gly Leu Thr Leu Gly
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Ser Ala Cys Ser Thr Leu Leu Val His Leu Ile
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<212> DNA

<213> Homo sapiens

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<222> (24)..(1451)

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 His Ser Ser Asn Ser Thr Tyr Gly Thr Thr Ser Ser Ser Leu Arg Ala
 15 20 25

gac cag gag gca ctg ctt gag aag ctg ctg gac cgc ccg ccc cct ggc 149
 Asp Gln Glu Ala Leu Leu Glu Lys Leu Leu Asp Arg Pro Pro Pro Gly
 30 35 40

ctg cag agg ccc gag gac cgc ttc tgt ggc aca tac atc atc ttc ttc	197
Leu Gln Arg Pro Glu Asp Arg Phe Cys Gly Thr Tyr Ile Ile Phe Phe	
45 50 55	
agc ctg ggc att ggc agt cta ctg cca tgg aac ttc ttt atc act gcc	245
Ser Leu Gly Ile Gly Ser Leu Leu Pro Trp Asn Phe Phe Ile Thr Ala	
60 65 70	
aag gag tac tgg atg ttc aaa ctc cgc aac tcc tcc agc cca gcc acc	293
Lys Glu Tyr Trp Met Phe Lys Leu Arg Asn Ser Ser Ser Pro Ala Thr	
75 80 85 90	
ggg gag gac cct gag ggc tca gac atc ctg aac tac ttt gag agc tac	341
Gly Glu Asp Pro Glu Gly Ser Asp Ile Leu Asn Tyr Phe Glu Ser Tyr	
95 100 105	
ctt gcc gtt gcc tcc acc gtg ccc tcc atg ctg tgc ctg gtg gcc aac	389
Leu Ala Val Ala Ser Thr Val Pro Ser Met Leu Cys Leu Val Ala Asn	
110 115 120	
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Phe Leu Leu Val Asn Arg Val Ala Val His Ile Arg Val Leu Ala Ser	
125 130 135	
ctg acg gtc atc ctg gcc atc ttc atg gtg ata act gca ctg gtg aag	485
Leu Thr Val Ile Leu Ala Ile Phe Met Val Ile Thr Ala Leu Val Lys	
140 145 150	

gtg gac act ttc tcc tgg acc cgt ggc ttt ttt gcg gtc acc att gtc 533
 Val Asp Thr Phe Ser Trp Thr Arg Gly Phe Phe Ala Val Thr Ile Val
 155 160 165 170

tgc atg gtg atc ctc agc ggt gcc tcc act gtc ttc agc agc agc atc 581
 Cys Met Val Ile Leu Ser Gly Ala Ser Thr Val Phe Ser Ser Ser Ile
 175 180 185

tac ggc atg acc ggc tcc ttt cct atg agg aac tcc cag gca ctg ata 629
 Tyr Gly Met Thr Gly Ser Phe Pro Met Arg Asn Ser Gln Ala Leu Ile
 190 195 200

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 Ser Gly Gly Ala Met Gly Gly Thr Val Ser Ala Val Ala Ser Leu Val
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gac ttg gct gca tcc agt gat gtg agg aac agc gcc ctg gcc ttc ttc 725
 Asp Leu Ala Ala Ser Ser Asp Val Arg Asn Ser Ala Leu Ala Phe Phe
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ctg acg gcc acc atc ttc ctc gtg ctc tgc atg gga ctc tac ctg ctg 773
 Leu Thr Ala Thr Ile Phe Leu Val Leu Cys Met Gly Leu Tyr Leu Leu
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 Leu Ser Arg Leu Glu Tyr Ala Arg Tyr Tyr Met Arg Pro Val Leu Ala

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gcc cat gtg ttt tct ggt gaa gag gag ctt ccc cag gac tcc ctc agt 869

Ala His Val Phe Ser Gly Glu Glu Glu Leu Pro Gln Asp Ser Leu Ser

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gcc cct tcg gtg gcc tcc aga ttc att gat tcc cac aca ccc cct ctc 917

Ala Pro Ser Val Ala Ser Arg Phe Ile Asp Ser His Thr Pro Pro Leu

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cgc ccc atc ctg aag aag acg gcc agc ctg ggc ttc tgt gtc acc tac 965

Arg Pro Ile Leu Lys Lys Thr Ala Ser Leu Gly Phe Cys Val Thr Tyr

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gtc ttc ttc atc acc agc ctc atc tac ccc gcc gtc tgc acc aac atc 1013

Val Phe Phe Ile Thr Ser Leu Ile Tyr Pro Ala Val Cys Thr Asn Ile

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gag tcc ctc aac aag ggc tcg ggc tca ctg tgg acc acc aag ttt ttc 1061

Glu Ser Leu Asn Lys Gly Ser Gly Ser Leu Trp Thr Thr Lys Phe Phe

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atc ccc ctc act acc ttc ctc ctg tac aac ttt gct gac cta tgt ggc 1109

Ile Pro Leu Thr Thr Phe Leu Leu Tyr Asn Phe Ala Asp Leu Cys Gly

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cgg cag ctc acc gcc tgg atc cag gtg cca ggg ccc aat agc aag gcg 1157

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 380 385 390

ctc tgt aac tac cag ccc cgc gtc cac ctg aag act gtg gtc ttc cag 1253
 Leu Cys Asn Tyr Gln Pro Arg Val His Leu Lys Thr Val Val Phe Gln
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 415 420 425

ggc tac ctc agc acc ctg gcc ctc ctc tac ggg cct aag att gtg ccc 1349
 Gly Tyr Leu Ser Thr Leu Ala Leu Leu Tyr Gly Pro Lys Ile Val Pro
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 Arg Glu Leu Ala Glu Ala Thr Gly Val Val Met Ser Phe Tyr Val Cys
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ttg ggc tta aca ctg ggc tca gcc tgc tct acc ctc ctg gtg cac ctc 1445
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Ile

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caactgccc ctaaccagac tggaaaaccc agaaagatgg gccttccatg aatgcttcat 2041

tccagaggga ccagagggcc tccctgtgca agggatcaag catgtctggc ctgggttttc 2101

aaaaaaagag ggatcctcat gacctggtgg tctatggcct gggtaagat gagggctttt 2161

cagtgttcct gttacaaca tgcataagcc attggttcaa gggcgtaata aatactigcg 2221

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

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<212> DNA

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<223> Description of Artificial Sequence: synthetic DNA

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<211> 475

<212> PRT

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Gly Lys Pro Leu Asp Tyr Pro Ala Pro Gly Leu Gln Arg Pro Glu Asp
 35 40 45

Arg Phe Asn Gly Ala Tyr Ile Ile Phe Phe Cys Leu Gly Ile Gly Gly
 50 55 60

Leu Leu Pro Trp Asn Phe Phe Val Thr Ala Lys Glu Tyr Trp Ala Phe
 65 70 75 80

Lys Leu Arg Asn Cys Ser Ser Pro Ala Ser Gly Lys Asp Pro Glu Asp
 85 90 95

Ala Asp Ile Leu Asn Tyr Phe Glu Ser Tyr Leu Ala Val Ala Ser Thr
 100 105 110

Val Pro Ser Leu Leu Phe Leu Val Ala Asn Phe Leu Leu Val Asn Arg
 115 120 125

Ile Arg Val His Val Arg Val Leu Ala Ser Leu Ser Val Ser Leu Ala
 130 135 140

13.

Ile Phe Val Val Met Ala Val Leu Val Arg Val Asp Thr Ser Ser Trp
145 150 155 160

Thr Arg Gly Phe Phe Ser Ile Ala Met Ala Cys Met Ala Ile Ile Ser
 165 170 175

Ser Ser Ser Thr Ile Phe Asn Ser Ser Val Tyr Gly Leu Thr Gly Ser
 180 185 190

Phe Pro Met Arg Asn Ala Gln Ala Leu Ile Ser Gly Gly Ala Met Gly
 195 200 205

Gly Thr Val Ser Ala Val Ala Ser Leu Val Asp Leu Ala Ala Ser Ser
 210 215 220

Asp Val Arg Asp Ser Ala Leu Ala Phe Phe Leu Thr Ala Ala Val Phe
225 230 235 240

Leu Gly Leu Cys Val Gly Leu Tyr Leu Leu Leu Pro Gln Leu Glu Tyr
 245 250 255

Ala Arg Tyr Tyr Met Arg Pro Val Val Pro Ile His Val Phe Ser Ser
 260 265 270

Glu Asp Ser Pro Pro Arg Asp Ala Pro Ser Thr Ser Ser Val Ala Pro
 275 280 285

Ala Ser Arg Ala Val His Thr Pro Pro Leu Gly Pro Ile Leu Lys Lys
290 295 300

Thr Ala Gly Leu Gly Phe Cys Ala Val Phe Leu Tyr Phe Ile Thr Ala
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14.

Leu Ile Phe Pro Ala Ile Ser Thr Asn Ile Gln Pro Met His Lys Gly
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Thr Gly Ser Pro Trp Thr Ser Lys Phe Tyr Val Pro Leu Thr Val Phe
340 345 350

Leu Leu Phe Asn Phe Ala Asp Leu Cys Gly Arg Gln Val Thr Ala Trp
355 360 365

Ile Gln Val Pro Gly Pro Arg Ser Lys Leu Leu Pro Ile Leu Ala Val
370 375 380

Ser Arg Val Cys Leu Val Pro Leu Phe Leu Leu Cys Asn Tyr Gln Pro
385 390 395 400

Arg Ser His Leu Thr Leu Val Leu Phe Gln Ser Asp Ile Tyr Pro Ile
405 410 415

Leu Phe Thr Cys Leu Leu Gly Leu Ser Asn Gly Tyr Leu Ser Thr Leu
420 425 430

Val Leu Met Tyr Gly Pro Lys Ile Val Pro Arg Glu Leu Ala Glu Ala
435 440 445

Thr Ser Val Val Met Leu Phe Tyr Met Ser Leu Gly Leu Met Leu Gly
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Ser Ala Cys Ala Ala Leu Leu Glu His Phe Ile
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<212> DNA

<213> Rat

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<222> (12)..(1436)

<223> Description of Artificial Sequence: synthetic DNA

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Asn Ala Val Tyr Arg Val Pro Ser Asn Arg His Glu Ala Asp Gln Glu
      15              20              25

gcc cta ctg gga aaa cca cta gac tac cca gcc cca ggc ctg cag agg      146
Ala Leu Leu Gly Lys Pro Leu Asp Tyr Pro Ala Pro Gly Leu Gln Arg
      30              35              40              45

cca gag gac cgc ttc aat ggt gcc tat atc atc ttc ttc tgc ctg gga      194
Pro Glu Asp Arg Phe Asn Gly Ala Tyr Ile Ile Phe Phe Cys Leu Gly
              50              55              60

att ggc ggc cta cta ccc tgg aac ttt ttt gtc act gcc aaa gag tac      242
Ile Gly Gly Leu Leu Pro Trp Asn Phe Phe Val Thr Ala Lys Glu Tyr
              65              70              75

tgg gca ttt aaa ctc cga aac tgc tcc agc cca gcc tcc ggg aag gac      290
Trp Ala Phe Lys Leu Arg Asn Cys Ser Ser Pro Ala Ser Gly Lys Asp

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80

85

90

cca gag gat gca gac atc ctg aac tac ttt gag agc tac ctg gcg gtt 338
 Pro Glu Asp Ala Asp Ile Leu Asn Tyr Phe Glu Ser Tyr Leu Ala Val
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gct tcc act gtg cct tcc ctg ctg ttt ctg gtg gct aac ttc ctg ctt 386
 Ala Ser Thr Val Pro Ser Leu Leu Phe Leu Val Ala Asn Phe Leu Leu
 110 115 120 125

gtc aac agg atc cgg gtg cat gtc cga gtt ctg gcc tca ctg tcc gtc 434
 Val Asn Arg Ile Arg Val His Val Arg Val Leu Ala Ser Leu Ser Val
 130 135 140

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 Ser Leu Ala Ile Phe Val Val Met Ala Val Leu Val Arg Val Asp Thr
 145 150 155

tct tcc tgg acc cgg ggc ttc ttc agc atc gcc atg gcg tgc atg gcc 530
 Ser Ser Trp Thr Arg Gly Phe Phe Ser Ile Ala Met Ala Cys Met Ala
 160 165 170

atc atc agc agc tcc tcc acc atc ttc aat agc agc gtg tat ggc ctg 578
 Ile Ile Ser Ser Ser Ser Thr Ile Phe Asn Ser Ser Val Tyr Gly Leu
 175 180 185

acg ggc tcg ttc ccc atg agg aat gcc cag gca ctg ata tca gga gga 626
 Thr Gly Ser Phe Pro Met Arg Asn Ala Gln Ala Leu Ile Ser Gly Gly
 190 195 200 205

gcc atg gga ggg aca gtc agc gcc gtg gcc tcc ctg gtg gac ctg gca 674
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 210 215 220

gca tcc agt gac gtg cga gac agt gcg ctg gcc ttc ttc ctc aca gca 722
 Ala Ser Ser Asp Val Arg Asp Ser Ala Leu Ala Phe Phe Leu Thr Ala
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17.

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Ala Val Phe Leu Gly Leu Cys Val Gly Leu Tyr Leu Leu Leu Pro Gln	
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ctg gag tat gcc agg tac tac atg agg ccg gtt gtc cca atc cac gtg	818
Leu Glu Tyr Ala Arg Tyr Tyr Met Arg Pro Val Val Pro Ile His Val	
255 260 265	
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Phe Ser Ser Glu Asp Ser Pro Pro Arg Asp Ala Pro Ser Thr Ser Ser	
270 275 280 285	
gtg gcc cct gca tcc aga gca gtg cac acg cca ccc ctc gga ccc atc	914
Val Ala Pro Ala Ser Arg Ala Val His Thr Pro Pro Leu Gly Pro Ile	
290 295 300	
ctg aag aag aca gct ggc ctg ggg ttc tgc gcc gtt ttc ctc tac ttc	962
Leu Lys Lys Thr Ala Gly Leu Gly Phe Cys Ala Val Phe Leu Tyr Phe	
305 310 315	
atc acc gcc ctt atc ttc ccc gct atc tcc acc aac atc cag ccc atg	1010
Ile Thr Ala Leu Ile Phe Pro Ala Ile Ser Thr Asn Ile Gln Pro Met	
320 325 330	
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His Lys Gly Thr Gly Ser Pro Trp Thr Ser Lys Phe Tyr Val Pro Leu	
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Thr Val Phe Leu Leu Phe Asn Phe Ala Asp Leu Cys Gly Arg Gln Val	
350 355 360 365	
aca gcc tgg atc cag gtg cca ggt cct agg agc aag ctg ctc ccc ata	1154
Thr Ala Trp Ile Gln Val Pro Gly Pro Arg Ser Lys Leu Leu Pro Ile	
370 375 380	
ctg gca gtc tct cgc gtc tgc ctc gtg cct ctc ttc ctg ctc tgt aac	1202
Leu Ala Val Ser Arg Val Cys Leu Val Pro Leu Phe Leu Leu Cys Asn	

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 400 405 410

tac cct ata ctc ttc acc tgc ctc ttg ggg ctc agt aat ggc tac ctc 1298
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 415 420 425

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 Ser Thr Leu Val Leu Met Tyr Gly Pro Lys Ile Val Pro Arg Glu Leu
 430 435 440 445

gct gag gcc acc agt gtg gtg atg ctg ttc tac atg tca ctg ggt ttg 1394
 Ala Glu Ala Thr Ser Val Val Met Leu Phe Tyr Met Ser Leu Gly Leu
 450 455 460

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 7

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<210> 8

<211> 17

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

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